

**FORMER CAMBRIDGE COMPRESSOR STATION  
CHARACTERIZATION REPORT/  
RESPONSE ACTION WORK PLAN**

**Muskingum County, Ohio**

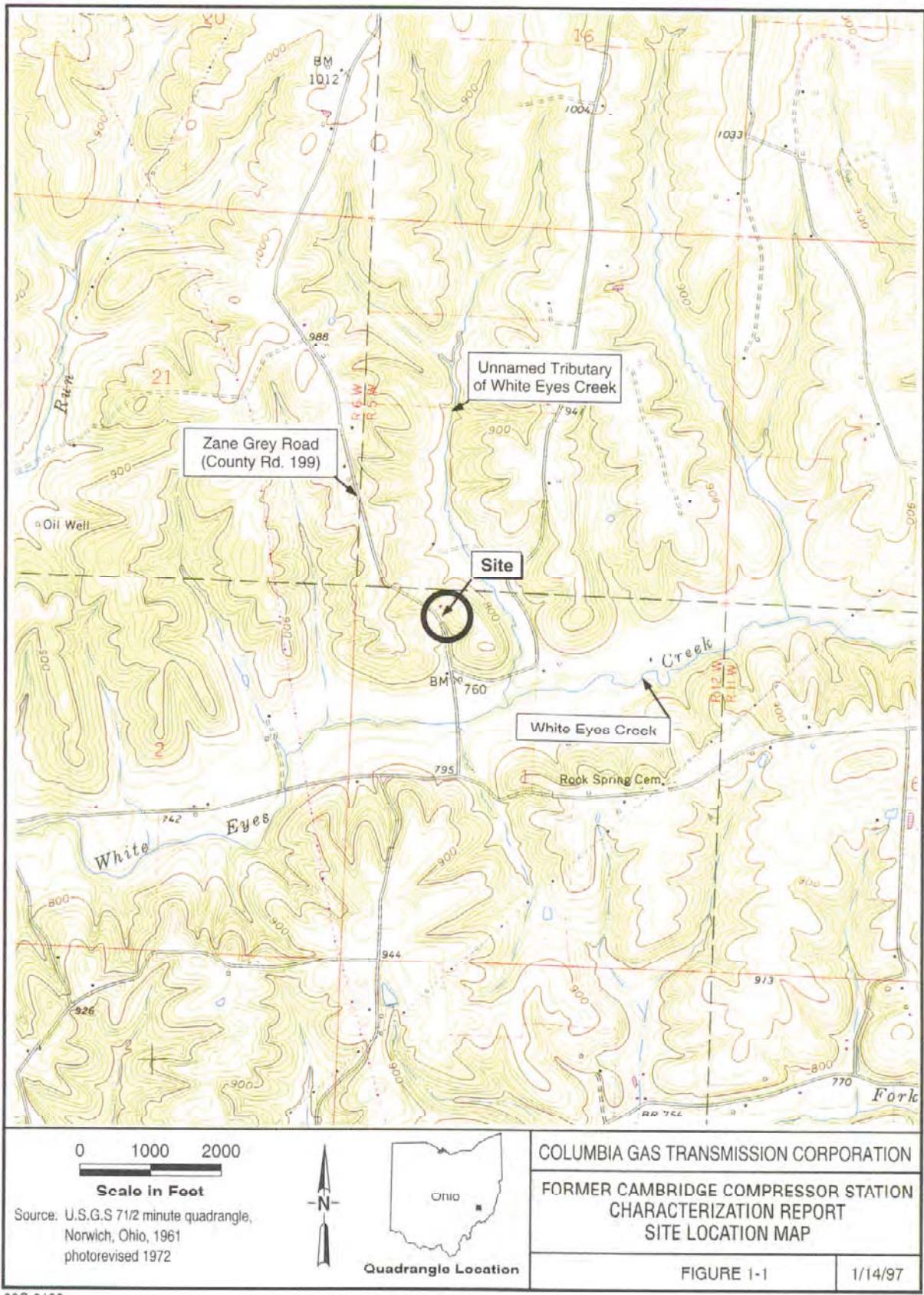
**November 2000**

Prepared for

**COLUMBIA GAS TRANSMISSION CORPORATION**

by

**ROY F. WESTON, INC.  
ENVIRONMENTAL STANDARDS, INC.**



## **2. ENVIRONMENTAL SETTING**

### **2.1 Physical Setting**

The site occupies approximately 3.56 acres, with the former operating portion of this facility encompassing an area of approximately 0.65 acres. The site is surrounded by a fence on all sides, and has a locked entrance gate on Zane Grey Road. The site elevation, based on the Norwich, Ohio 7.5 Minute Series USGS Quadrangle Map (Figure 1-1), is approximately 800 feet above msl. The site is located in an area of heavily forested rolling hills, where the valley floors are approximately 720 feet above msl, and the surrounding ridge tops are approximately 940 to 1,020 feet above msl.

### **2.2 Climate**

The site is located in Muskingum County, Ohio, which is characterized as having a continental climate, with moderate extremes of heat, cold, wetness, and dryness. The site is located in the southeast portion of the state, approximately 80 miles east of Columbus. Summers in the site region (as measured at the Philo weather station, located approximately 5 miles west of the site) are moderately warm and humid, with an average July temperature of 75 °F. Winters are reasonably cold, with an average January temperature of 33°F (Water Information Center, 1974).

The site region receives a mean annual precipitation of 40 inches, with the greatest levels occurring in the spring, and the lowest levels occurring in the fall. Prevailing winds are generally from the south or northwest (Water Information Center, 1974).

### **2.3 Surface Water Hydrology**

The site is located in a relatively hilly area, on the crest of a hill. Based on the observed topography, surface water flow across the site property is in all directions. There is one drainage channel at the northwest side of the station that flows towards the northeast. This drainage channel feeds an unnamed tributary of White Eyes Creek, which flows south approximately 1,500

feet towards White Eyes Creek. Surface water from the former operating area would most likely infiltrate before reaching the nearest downgradient surface water body.

## **2.4 Geology and Soils**

The site is located in the Appalachian Plateaus Province, which is prevalent in the eastern portion of Ohio. The Appalachian Plateaus region is underlain by an eastward-thickening succession of shale, sandstone, and coal-bearing strata of Pennsylvanian Age. The area is unglaciated and has thick units of sand and gravel fill. The subsurface geologic units in the vicinity of the site consist primarily of the Conemaugh Group, approximately 350 to 490 feet in thickness, and the Allegheny and Pottsville Groups undivided, approximately 450 to 620 feet in thickness (Figure 2-1). Both geologic types consist of shale, siltstone, and sandstone, with lesser quantities of limestone and coal (ODNR, 1997).

Soils in the area of the site, as mapped by the USDA Natural Resource Conservation Service and presented in the Muskingum County Soil Survey (1996), are silt loams. They include the Coshocton-Westmoreland, the Guernsey-Upshur, the Gilpin, and the Fitchville soils. These soils are moderately deep and moderate in permeability (Figure 2-2).

## **2.5 Hydrogeology and Groundwater Quality**

The Former Cambridge site area appears to be underlain by a shaly sandstone and carbonate sedimentary bedrock aquifer. This aquifer is generally composed of low-yielding shales and shaly sandstones that include numerous coal-bearing strata. Virtually all recharge to Ohio's aquifers is from precipitation (USGS, 1985). Domestic wells typically yield between 0 to 5 gallons per minute (gpm), with maximum yields as high as 10 gpm.

Two water wells are present at the site. One of these wells (Water Well A), located approximately 300 ft northwest of the station, currently provides private water to the Former Cambridge station. The other well (Water Well B) is located within the site fence line, south of the auxiliary building, and formerly served as the site's potable drinking water source. Given that the nearest residential

All investigation derived waste (IDW) generated during site characterization activities was handled and disposed of in accordance with SOP 020.

### **3.1.1 Soil Samples**

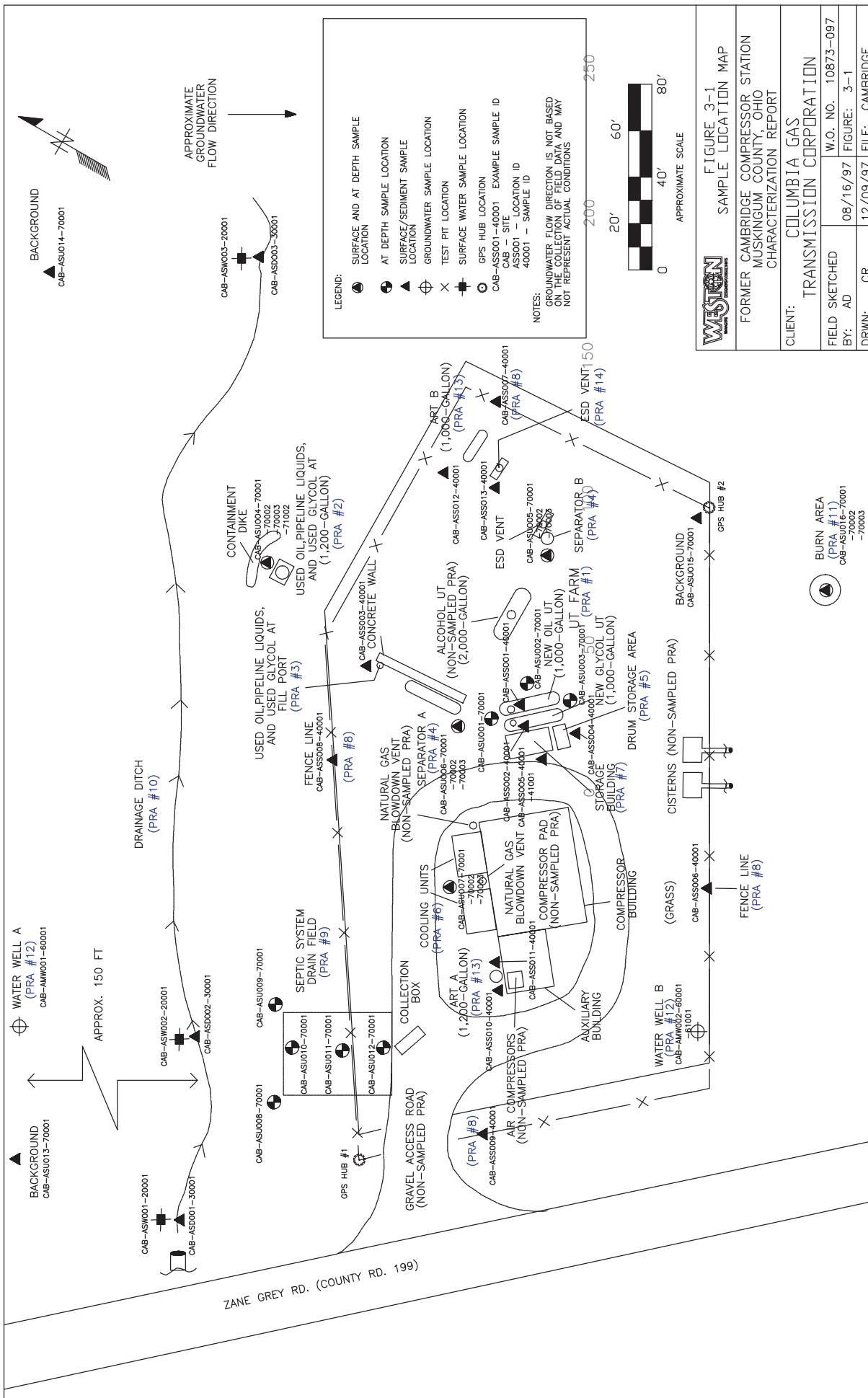
Surface soil sampling (less than 1 foot bgs) at this site was performed in accordance with SOP 003 using stainless-steel hand trowels, disposable sample spoons, and stainless-steel hand augers. Surface soil samples for PCBs and inorganic parameters were obtained from the 0- to 0.5-foot bgs interval. Surface soil samples for volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs) were obtained from the 0.5- to 1-foot bgs interval. The samples were homogenized in a stainless-steel bowl with stainless-steel spoons, with the exception of the samples for volatile organic analyses. Where gravel was present, soil samples were collected from native soil after the gravel was removed. The depth below ground surface of the native soils was recorded.

Subsurface soil sampling was performed in accordance with SOP 007 using a Geoprobe® (direct push technology). Samples were collected at the depths specified in the SAP using a 4-foot-long sampling tube. The samples were homogenized in a stainless-steel bowl with stainless-steel spoons, with the exception of portions of samples removed directly from the tube for VOC analyses.

All of the soil samples were visually logged using the Unified Soil Classification System (USCS). A summary of the soil sample logs is provided in Appendix C of this CR/Rawp. Head space readings were collected for subsurface soil samples using a photoionization detector (PID). A combustible gas indicator (CGI) was used to screen the sample area for health and safety purposes.

### **3.1.2 Sediment and Surface Water Samples**

Three surface water samples were collected in accordance with SOP 006 from the drainage ditch (PRA #10) using laboratory-prepared, unpreserved sample bottles. The samples were collected by sampling the downstream location first, then moving upstream. This was done to limit the



**Table 4-3**  
**Summary of Analytical Results**

PRA	0			
PRA Description	BACKGROUND			
Sample Type	Normal Sample			
Sample Id	CAB-ASU013-70001	CAB-ASU014-70001	CAB-ASU015-70001	
Depth - ft bgs	1 - 3	1 - 3	1 - 3	
Collected Date	11/05/97	11/05/97	11/06/97	
Laboratory	Recra Amherst	Recra Amherst	Recra Amherst	
Sample Collector	Roy F. Weston, Inc.	Roy F. Weston, Inc.	Roy F. Weston, Inc.	
Result Units	MG/KG	MG/KG	MG/KG	
Action Level		> CAL*	> CAL*	> CAL*
Analyte		Result Flag	Result Flag	Result Flag
VOA	ETHYL BENZENE	7800	ND	ND
	XYLEMES (TOTAL)	1000000	ND	ND
P/PCB	AROCOLOR-1248	1	ND	ND
	AROCOLOR-1254	1	ND	ND
METAL	BARIUM, TOTAL	5500	66.9	84.3
	BERYLLIUM, TOTAL	160	ND	ND
	CADMIUM, TOTAL	39	1.7	1.9
	CHROMIUM, TOTAL	230	14.2	19.5
	LEAD, TOTAL	400	ND	ND
	NICKEL, TOTAL	1600	21.0	20.8
	ARSENIC, TOTAL	.43	10.9	X
			10.2	8.9
				X

Notes:

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J flag - Numerical value is an estimated quantity.

ND indicates Non-Detect

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**Table 4-3**  
**Summary of Analytical Results**

PRA	1	PRA #01 UT FARM (NEW GLYCOL UT & NEW OIL UT)		
PRA Description	Normal Sample			CAB-ASU001-70001
Sample Type	CAB-ASS001-40001	CAB-ASS002-40001	CAB-ASU001-70001	
Sample Id	CAB-ASS001-40001	0 - 1	0 - 1	4 - 6
Depth - ft bgs	0 - 1			
Collected Date	11/06/97	11/06/97	11/07/97	
Laboratory	Recra Amherst	Recra Amherst	Recra Amherst	
Sample Collector	Roy F. Weston, Inc.	Roy F. Weston, Inc.	Roy F. Weston, Inc.	
Result Units	MG/KG	MG/KG	MG/KG	
Action Level		> CAL*	> CAL*	> CAL*
Analyte		Result Flag	Result Flag	Result Flag
VOA	ETHYL BENZENE	7800	0.008	ND
	XYLEMES (TOTAL)	1000000	0.021	ND
P/PCB	AROCOLOR-1248	1		
	AROCOLOR-1254	1		
METAL	BARIUM, TOTAL	5500		
	BERYLLIUM, TOTAL	160		
	CADMIUM, TOTAL	39		
	CHROMIUM, TOTAL	230		
	LEAD, TOTAL	400		
	NICKEL, TOTAL	1600		
	ARSENIC, TOTAL	.43		

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**Table 4-3**  
**Summary of Analytical Results**

PRA			2
PRA Description	PRA #02 USED OIL, PIPELINE L.		
Sample Type	Field Duplicate (Rep)		
Sample Id	CAB-ASU002-70001	CAB-ASU003-70001	CAB-ASU004-71002
Depth - ft bgs	10 - 12	10 - 12	2 - 3
Collected Date	11/07/97	11/07/97	11/07/97
Laboratory	Recra Amherst	Recra Amherst	Recra Amherst
Sample Collector	Roy F. Weston, Inc.	Roy F. Weston, Inc.	Roy F. Weston, Inc.
Result Units	MG/KG	MG/KG	MG/KG
Action Level	Result Flag	> CAL*	Result Flag
Analyte			
VOA	ETHYL BENZENE	7800	ND
	XYLENES (TOTAL)	1000000	ND
P/PCB	AROCLOR-1248	1	
	AROCLOR-1254	1	
METAL	BARIUM, TOTAL	5500	
	BERYLLIUM, TOTAL	160	
	CADMIUM, TOTAL	39	
	CHROMIUM, TOTAL	230	
	LEAD, TOTAL	400	
	NICKEL, TOTAL	1600	
	ARSENIC, TOTAL	.43	

Notes:

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**Table 4-3**  
**Summary of Analytical Results**

PRA						
PRA Description IQUIDS, & USED GLYCOL AT (1200 GAL)						
	Sample Type	Normal Sample				
	Sample Id	CAB-ASU004-70001	CAB-ASU004-70002	CAB-ASU004-70003	CAB-ASU004-70003	
Depth - ft bgs	0 - 1		2 - 3		4 - 5	
Collected Date	11/07/97	11/07/97		11/07/97		
Laboratory	Recra Amherst	Recra Amherst		Recra Amherst		
Sample Collector	Roy F. Weston, Inc.	Roy F. Weston, Inc.		Roy F. Weston, Inc.		
Result Units	MG/KG	MG/KG		MG/KG		
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*
VOA	ETHYL BENZENE	7800	ND		ND	ND
	XYLENES (TOTAL)	1000000	ND		ND	ND
P/PCB	AROCOLOR-1248	1	ND		ND	ND
	AROCOLOR-1254	1	ND		ND	ND
METAL	BARIUM, TOTAL	5500	63.2		80.9	83.3
	BERYLLIUM, TOTAL	160	ND		1.6	1.4
	CADMIUM, TOTAL	39	1.6		3.4	3.5
	CHROMIUM, TOTAL	230	20.3		29.1	45.8
	LEAD, TOTAL	400	ND		ND	ND
	NICKEL, TOTAL	1600	23.1		35.8	45.6
	ARSENIC, TOTAL	.43	6.5	X	13.8	X
					56.2	X

Notes:

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**Table 4-3**  
**Summary of Analytical Results**

PRA	3	4	
PRA Description	PRA #03 AT FILL PORT	PRA #04 SEPARATORS (A & B)	
Sample Type	Normal Sample	Normal Sample	
Sample Id	CAB-ASS003-40001	CAB-ASU005-70001	CAB-ASU005-70002
Depth - ft bgs	0 - 1	0 - 1	2 - 3
Collected Date	11/06/97	11/07/97	11/07/97
Laboratory	Recra Amherst	Recra Amherst	Recra Amherst
Sample Collector	Roy F. Weston, Inc.	Roy F. Weston, Inc.	Roy F. Weston, Inc.
Result Units	MG/KG	MG/KG	MG/KG
Action Level		> CAL*	> CAL*
Category	Analyte	Result Flag	Result Flag
VOA	ETHYL BENZENE	7800 ND	ND ND
	XYLEMES (TOTAL)	1000000 ND	ND ND
P/PCB	AROCOLOR-1248	1 ND	ND ND
	AROCOLOR-1254	1 1.5 X	ND ND
METAL	BARIUM, TOTAL	5500 100	
	BERYLLIUM, TOTAL	160 ND	
	CADMIUM, TOTAL	39 ND	
	CHROMIUM, TOTAL	230 15.3	
	LEAD, TOTAL	400 ND	
	NICKEL, TOTAL	1600 16.2	
	ARSENIC, TOTAL	.43 4.2 X	

Notes:

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**Table 4-3**  
**Summary of Analytical Results**

PRA	
PRA Description	
Sample Type	
Sample Id	CAB-ASU005-70003
Depth - ft bgs	4 . 5
Collected Date	11/07/97
Laboratory	Recra Amherst
Sample Collector	Roy F. Weston, Inc.
Result Units	MG/KG
Action Level	
Analyte	
VOA	
ETHYL BENZENE	7800
XYLEMES (TOTAL)	1000000
P/PCB	
AROCLOR-1248	1
AROCLOR-1254	1
METAL	
BARIUM, TOTAL	5500
BERYLLIUM, TOTAL	160
CADMIUM, TOTAL	39
CHROMIUM, TOTAL	230
LEAD, TOTAL	400
NICKEL, TOTAL	1600
ARSENIC, TOTAL	.43

Notes:

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**Table 4-3**  
**Summary of Analytical Results**

PRA	5	6
PRA Description	PRA #05 DRUM STORAGE AREA/PRA #06 COOLING UNITS	
Sample Type	Normal Sample	
Sample Id	CAB-ASU006-70003	CAB-ASS004-40001
Depth - ft bgs	4 . 5	0 . 1
Collected Date	11/07/97	11/06/97
Laboratory	Recra Amherst	Recra Amherst
Sample Collector	Roy F. Weston, Inc.	Roy F. Weston, Inc.
Result Units	MG/KG	MG/KG
Action Level	Result Flag	> CAL*
Analyte		Result Flag
VOA	ETHYL BENZENE	ND
	XYLEMES (TOTAL)	ND
P/PCB	AROCOLOR-1248	1
	AROCOLOR-1254	1
METAL	BARIUM, TOTAL	5500
	BERYLLIUM, TOTAL	160
	CADMIUM, TOTAL	39
	CHROMIUM, TOTAL	230
	LEAD, TOTAL	400
	NICKEL, TOTAL	1600
	ARSENIC, TOTAL	.43

Notes:

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**Table 4-3**  
**Summary of Analytical Results**

PRA		7	
PRA Description		PRA #07 STORAGE BUILDING	
Sample Type		Field Duplicate (Rep)	
Sample Id	CAB-ASU007-70002	CAB-ASU007-70003	CAB-ASS005-41001
Depth - ft bgs	2 - 3	4 - 5	0 - 1
Collected Date	11/07/97	11/07/97	11/06/97
Laboratory	Recra Amherst	Recra Amherst	Recra Amherst
Sample Collector	Roy F. Weston, Inc.	Roy F. Weston, Inc.	Roy F. Weston, Inc.
Result Units	MG/KG	MG/KG	MG/KG
Action Level	Result Flag	> CAL*	Result Flag
VOA	ETHYL BENZENE	7800	ND
	XYLEMES (TOTAL)	1000000	ND
P/PCB	AROCOLOR-1248	1	ND
	AROCOLOR-1254	1	ND
METAL	BARIUM, TOTAL	5500	ND
	BERYLLIUM, TOTAL	160	ND
	CADMIUM, TOTAL	39	ND
	CHROMIUM, TOTAL	230	ND
	LEAD, TOTAL	400	ND
	NICKEL, TOTAL	1600	ND
	ARSENIC, TOTAL	.43	ND

Notes:

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**Table 4-3**  
**Summary of Analytical Results**

PRA	8
PRA Description	PRA #08 FENCE LINE
Sample Type	Normal Sample
Sample Id	CAB-ASS005-40001
Depth - ft bgs	0 - 1
Collected Date	11/06/97
Laboratory	Recra Amherst
Sample Collector	Roy F. Weston, Inc.
Result Units	MG/KG
Action Level	
Analyte	
Category	
VOA	ETHYL BENZENE
	7800
	ND
	ND
P/PCB	XYLENES (TOTAL)
	1000000
	ND
	ND
	ND
AROCLOR-1248	1
	ND
	ND
	ND
AROCLOR-1254	1
	38
	X
	ND
	ND
METAL	BARIUM, TOTAL
	5500
	72.7
	ND
	ND
BERYLLIUM, TOTAL	160
	1.1
	ND
	ND
CADMIUM, TOTAL	39
	2.8
	2.4
	2.2
CHROMIUM, TOTAL	230
	24.7
	26.5
	21.7
LEAD, TOTAL	400
	22.6
	ND
	ND
NICKEL, TOTAL	1600
	31.5
	33.1
	24.4
ARSENIC, TOTAL	.43
	4.8
	X
	3.8
	X
	7.7
	X

Notes:

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**Table 4-3**  
**Summary of Analytical Results**

PRA		9	
PRA Description		PRA #09 SEPTIC SYSTEM DRAF	
Sample Type		Normal Sample	
Sample Id	CAB-ASS008-40001	CAB-ASS009-40001	CAB-ASU008-70001
Depth - ft bgs	0 - 1	0 - 1	3 - 5
Collected Date	11/06/97	11/06/97	11/07/97
Laboratory	Recra Amherst	Recra Amherst	Recra Amherst
Sample Collector	Roy F. Weston, Inc.	Roy F. Weston, Inc.	Roy F. Weston, Inc.
Result Units	MG/KG	MG/KG	MG/KG
Action Level		> CAL*	> CAL*
Analyte		Result Flag	Result Flag
VOA	ETHYL BENZENE	7800	ND
	XYLEMES (TOTAL)	1000000	ND
P/PCB	AROCOLOR-1248	1	ND
	AROCOLOR-1254	1	ND
METAL	BARIUM, TOTAL	5500	80.9
	BERYLLIUM, TOTAL	160	ND
	CADMIUM, TOTAL	39	2.3
	CHROMIUM, TOTAL	230	24.7
	LEAD, TOTAL	400	ND
	NICKEL, TOTAL	1600	26.5
	ARSENIC, TOTAL	.43	8.8

Notes:

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**Table 4-3**  
**Summary of Analytical Results**

PRA	
PRA Description	\ FIELD
Sample Type	
Sample Id	CAB-ASU009-70001
Depth - ft bgs	3 - 5
Collected Date	11/07/97
Laboratory	Recra Amherst
Sample Collector	Roy F. Weston, Inc.
Result Units	MG/KG
Action Level	Result Flag
	> CAL*
VOA	ETHYL BENZENE
	7800
	ND
	ND
P/PCB	XYLEMES (TOTAL)
	1000000
	ND
	ND
	ND
AROCLOR-1248	
	1
	ND
	ND
	ND
AROCLOR-1254	
	1
	ND
	ND
METAL	BARIUM, TOTAL
	5500
BERYLLIUM, TOTAL	160
CADMIUM, TOTAL	39
CHROMIUM, TOTAL	230
LEAD, TOTAL	400
NICKEL, TOTAL	1600
ARSENIC, TOTAL	.43

Notes:

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**Table 4-3**  
**Summary of Analytical Results**

PRA	10		
PRA Description		PRA #10 DRAINAGE DITCH	
Sample Type	Normal Sample		
Sample Id	CAB-ASU012-70001	CAB-ASD001-30001	CAB-ASD002-30001
Depth - ft bgs	3 . 5	0 . 1	0 . 1
Collected Date	11/07/97	11/06/97	11/06/97
Laboratory	Recra Amherst	Recra Amherst	Recra Amherst
Sample Collector	Roy F. Weston, Inc.	Roy F. Weston, Inc.	Roy F. Weston, Inc.
Result Units	MG/KG	MG/KG	MG/KG
Action Level		> CAL*	> CAL*
Category	Analyte	Result Flag	Result Flag
VOA	ETHYL BENZENE	7800 ND	ND ND
	XYLEMES (TOTAL)	1000000 ND	ND ND
P/PCB	AROCOLOR-1248	1 ND	ND ND
	AROCOLOR-1254	1 ND	ND ND
METAL	BARIUM, TOTAL	5500	118 88.9
	BERYLLIUM, TOTAL	160	ND ND
	CADMIUM, TOTAL	39	2.4 1.9
	CHROMIUM, TOTAL	230	19.9 15.6
	LEAD, TOTAL	400	ND ND
	NICKEL, TOTAL	1600	26.7 20.1
	ARSENIC, TOTAL	.43	8.7 X 17.1 X

Notes:

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J flag - Numerical value is an estimated quantity.

ND indicates Non-Detect

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**Table 4-3**  
**Summary of Analytical Results**

PRA	11		
PRA Description		PRA #11 BURN AREA	
Sample Type	Normal Sample		
Sample Id	CAB-ASD003-30001	CAB-ASU016-70001	CAB-ASU016-70002
Depth - ft bgs	0 - 1	0 - 2	4 - 6
Collected Date	11/06/97	11/07/97	11/07/97
Laboratory	Recra Amherst	Recra Amherst	Recra Amherst
Sample Collector	Roy F. Weston, Inc.	Roy F. Weston, Inc.	Roy F. Weston, Inc.
Result Units	MG/KG	MG/KG	MG/KG
Action Level		> CAL*	> CAL*
Category	Analyte	Result Flag	Result Flag
VOA	ETHYL BENZENE	ND	ND
	XYLEMES (TOTAL)	ND	ND
P/PCB	AROCOLOR-1248	1	ND
	AROCOLOR-1254	1	ND
METAL	BARIUM, TOTAL	5500	64.1
	BERYLLIUM, TOTAL	160	ND
	CADMIUM, TOTAL	39	ND
	CHROMIUM, TOTAL	230	11.9
	LEAD, TOTAL	400	ND
	NICKEL, TOTAL	1600	15.7
	ARSENIC, TOTAL	.43	5.9

Notes:

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**Table 4-3**  
**Summary of Analytical Results**

PRA	13	PRA #13 AIR RECEIVING TANKS (A AND B)		
Sample Type	Normal Sample			
Sample Id	CAB-ASU016-70003	CAB-ASS010-40001	CAB-ASS011-40001	CAB-ASS011-40001
Depth - ft bgs	7 - 8	0 - .5	0 - .5	0 - .5
Collected Date	11/07/97	11/06/97	11/06/97	11/06/97
Laboratory	Recra Amherst	Recra Amherst	Recra Amherst	Recra Amherst
Sample Collector	Roy F. Weston, Inc.	Roy F. Weston, Inc.	Roy F. Weston, Inc.	Roy F. Weston, Inc.
Result Units	MG/KG	MG/KG	MG/KG	MG/KG
Action Level		> CAL*	> CAL*	> CAL*
Analyte		Result Flag	Result Flag	Result Flag
VOA	ETHYL BENZENE	7800	ND	
	XYLEMES (TOTAL)	1000000	ND	
P/PCB	AROCOLOR-1248	1	ND	ND
	AROCOLOR-1254	1	ND	ND
METAL	BARIUM, TOTAL	5500	77.2	
	BERYLLIUM, TOTAL	160	1.2	
	CADMIUM, TOTAL	39	2.3	0.25 J
	CHROMIUM, TOTAL	230	25.3	
	LEAD, TOTAL	400	ND	
	NICKEL, TOTAL	1600	32.8	
	ARSENIC, TOTAL	.43	3.8	X

Notes:

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**Table 4-3**  
**Summary of Analytical Results**

PRA	14		
PRA Description	PRA #14 ESD VENT		
Sample Type	Normal Sample		
Sample Id	CAB-ASS012-40001		
Sample Id	CAB-ASS013-40001		
Depth - ft bgs	0 .5	0 .5	
Collected Date	11/06/97	11/06/97	
Laboratory	Recra Amherst	Recra Amherst	
Sample Collector	Roy F. Weston, Inc.	Roy F. Weston, Inc.	
Result Units	MG/KG	MG/KG	
Category	Analyte	Action Level	Result Flag > CAL*
VOA	ETHYL BENZENE	7800	ND
	XYLENES (TOTAL)	1000000	ND
P/PCB	AROCLOR-1248	1	ND
	AROCLOR-1254	1	ND
METAL	BARIUM, TOTAL	5500	
	BERYLLIUM, TOTAL	160	
	CADMIUM, TOTAL	39	
	CHROMIUM, TOTAL	230	
	LEAD, TOTAL	400	
	NICKEL, TOTAL	1600	
	ARSENIC, TOTAL	.43	

Notes:

\* "> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

ND indicates Non-Detect

Blank cells in result column indicate an analysis was not performed for that analyte.

**Table 4-3**  
**Summary of Analytical Results**

PRA	<b>10</b>					
PRA Description	<b>PRA #10 DRAINAGE DITCH</b>					
Sample Type	Normal Sample					
Sample Id	CAB-ASW001-20001	CAB-ASW002-20001	CAB-ASW003-20001	CAB-ASW004-20001	CAB-ASW005-20001	CAB-ASW006-20001
Depth - ft bgs	<b>0 - 0</b>	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0
Collected Date	<b>11/06/97</b>	11/06/97	11/06/97	11/06/97	11/06/97	11/06/97
Laboratory	Recra Amherst	Recra Amherst	Recra Amherst	Recra Amherst	Recra Amherst	Recra Amherst
Sample Collector	Roy F. Weston, Inc.	Roy F. Weston, Inc.	Roy F. Weston, Inc.	Roy F. Weston, Inc.	Roy F. Weston, Inc.	Roy F. Weston, Inc.
Result Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Action Level						
Category	Analyte	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag
<b>VOA</b>						
TOLUENE		1000	ND	ND	ND	ND
<b>BNA</b>						
PHENOL		4000	10 R	ND	ND	ND
<b>2-METHYLPHENOL (O-CRESOL)</b>		1800	10 R	ND	ND	ND
<b>3- AND/OR 4-METHYLPHENOL</b>		180	10 R	ND	ND	ND
<b>2,4-DICHLOROPHENOL</b>		20	10 R	ND	ND	ND
<b>2,4,6-TRICHLOROPHENOL</b>		6.1	10 R	X	ND	ND
<b>2,4,5-TRICHLOROPHENOL</b>		3700	50 R	ND	ND	ND
<b>P/PCB</b>						
AROCLOR-1242		.5	ND	1.2	X	ND
AROCLOR-1254		.5	ND	ND	ND	ND
<b>METAL</b>						
BARIUM, TOTAL		2000	220	ND	ND	ND
LEAD, TOTAL		15	29.0	X	21.0	X
ARSENIC, TOTAL		50	ND	ND	ND	ND

Notes:

\* "> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

ND indicates Non-Detect

Blank cells in result column indicate an analysis was not performed for that analyte.

**Table 4-3**  
**Summary of Analytical Results**

PRA	12	PRA #12 POTABLE WATER WELLS (A AND B)					
PRA Description	Field Duplicate (Rep)	Normal Sample					
Sample Type	CAB-AMW002-61001	CAB-AMW001-60001	CAB-AMW002-60001				
Sample Id							
Depth - ft bgs	0 . 0	0 . 0	0 . 0	0 . 0	0 . 0	0 . 0	0 . 0
Collected Date	11/07/97	11/06/97	11/07/97				
Laboratory	Recra Amherst	Recra Amherst	Recra Amherst				
Sample Collector	Roy F. Weston, Inc.	Roy F. Weston, Inc.	Roy F. Weston, Inc.				
Result Units	UG/L	UG/L	UG/L				
Action Level							
Category	Analyte	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	TOLUENE	1000	ND	ND	ND	ND	ND
BNA	PHENOL	4000	ND	ND	ND	ND	ND
	2-METHYLPHENOL (O-CRESOL)	1800	ND	ND	ND	ND	ND
	3- AND/OR 4-METHYLPHENOL	180	ND	ND	ND	ND	ND
	2,4-DICHLOROPHENOL	20	ND	ND	ND	ND	ND
	2,4,6-TRICHLOROPHENOL	6.1	ND	ND	ND	ND	ND
	2,4,5-TRICHLOROPHENOL	3700	ND	ND	ND	ND	ND
P/PCB	AROCLOR-1242	.5	ND	ND	ND	ND	ND
	AROCLOR-1254	.5	ND	ND	ND	ND	ND
METAL	BARIUM, TOTAL	2000	ND	390	ND	ND	ND
	LEAD, TOTAL	15	ND	ND	ND	ND	ND
	ARSENIC, TOTAL	50	86.0	X	ND	59.0	X

Notes:

\* "> CAL" equals "X" when reported value is above characterization action level for this locale.  
J flag - Numerical value is an estimated quantity.  
ND indicates Non-Detect  
Blank cells in result column indicate an analysis was not performed for that analyte.